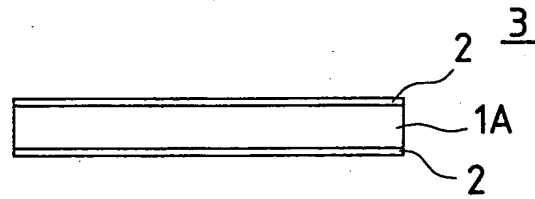
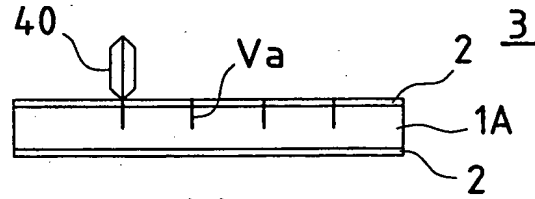


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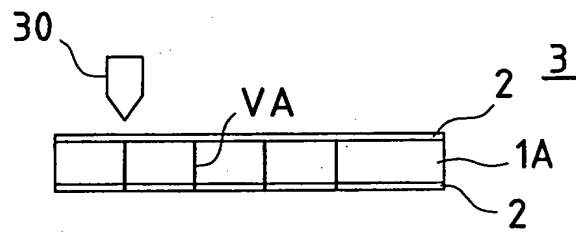
FIG. 1



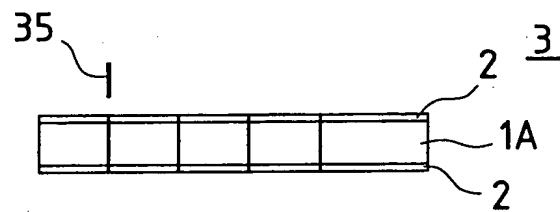
(a)



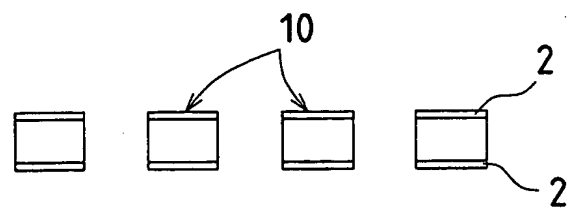
(b)



(c)



(d)



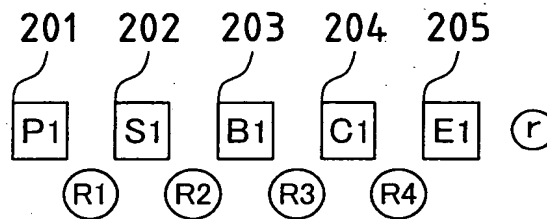
(e)

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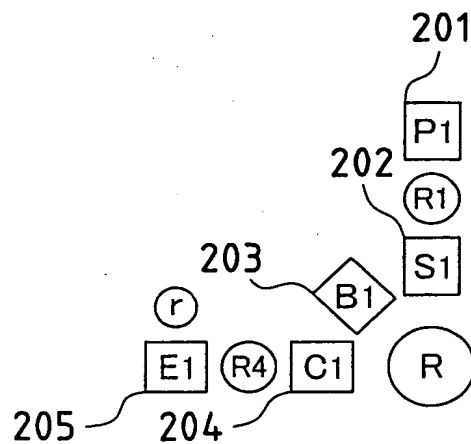
FIG. 2

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (201)
R1~R4	: TRANSPORT ROBOTS
S1	: SCRIBING DEVICE (202)
B1	: BREAKING DEVICE (203)
E1	: SEPARATING DEVICE (205)
C1	: PROTECTIVE MATERIAL CUTTING DEVICE (204)



(b)

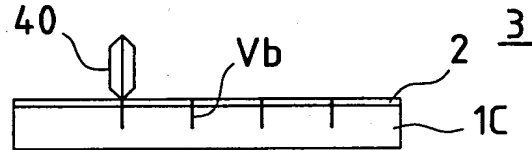


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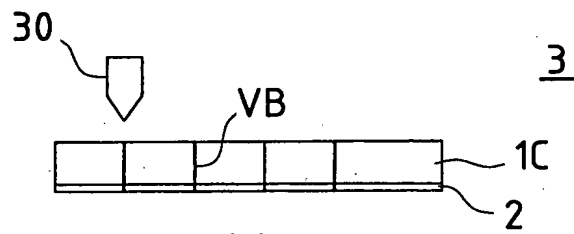
FIG. 3



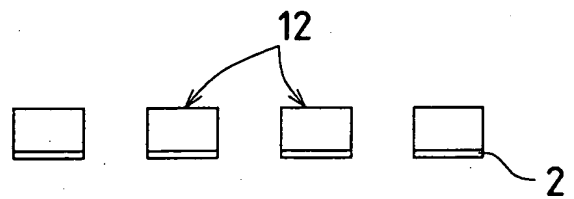
(a)



(b)



(c)



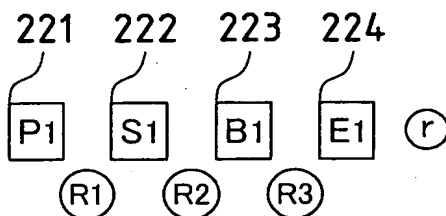
(d)

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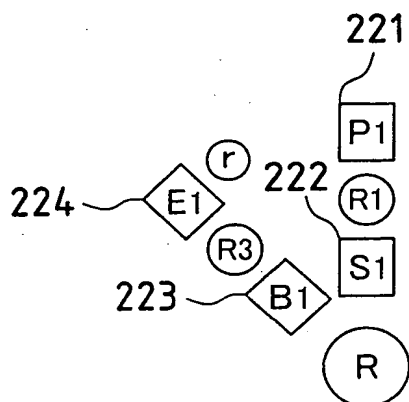
FIG.4

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (221)
R1~R3	: TRANSPORT ROBOTS
S1	: SCRIBING DEVICE (222)
B1	: BREAKING DEVICE (223)
E1	: SEPARATING DEVICE (224)

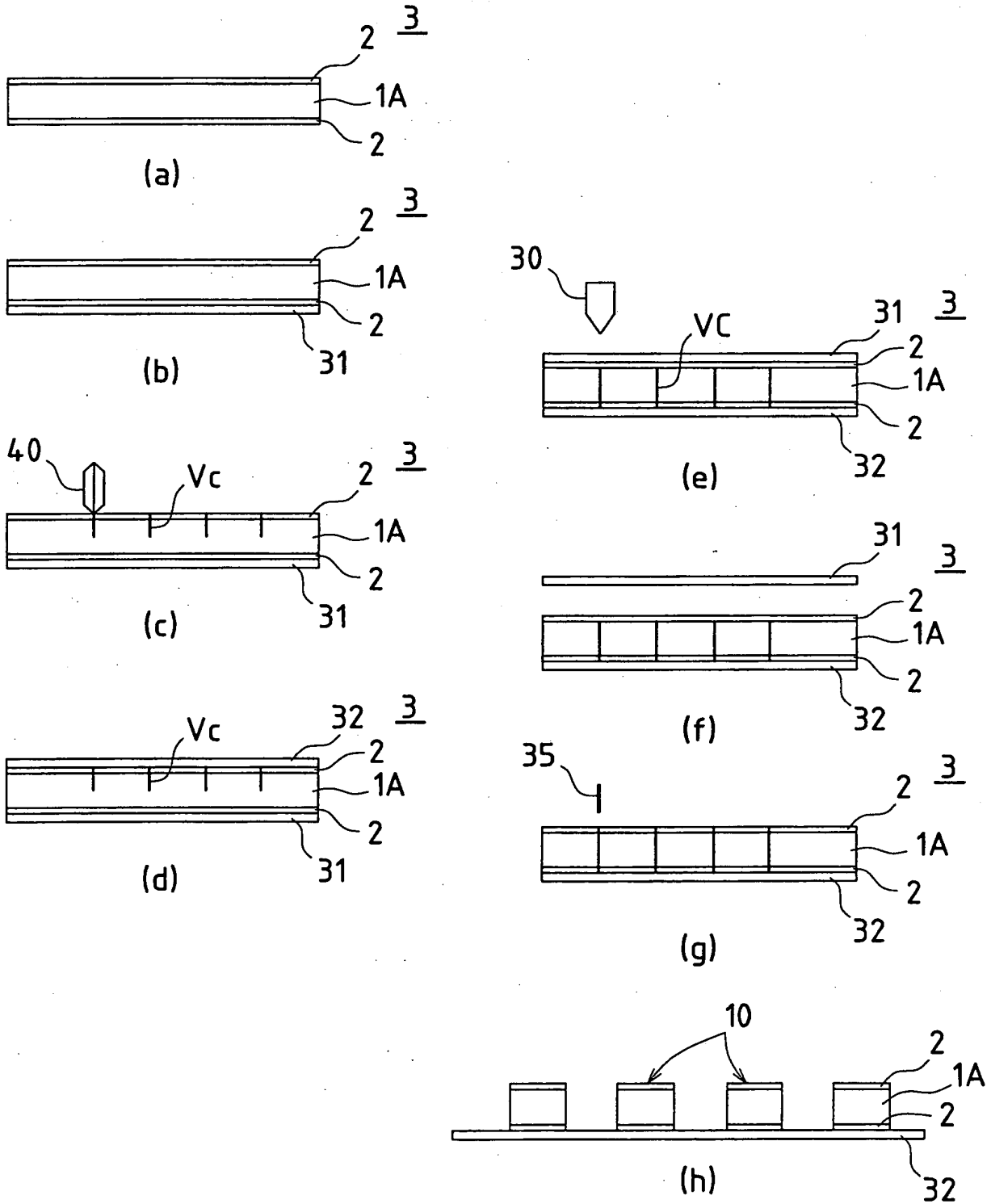


(b)



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FIG. 5

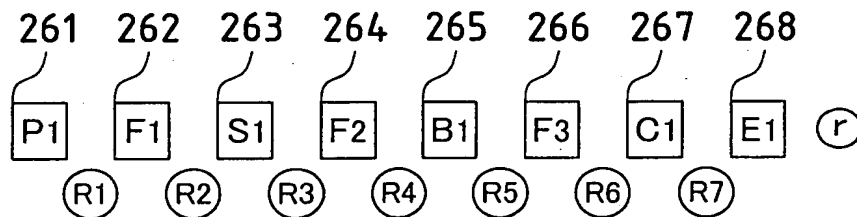


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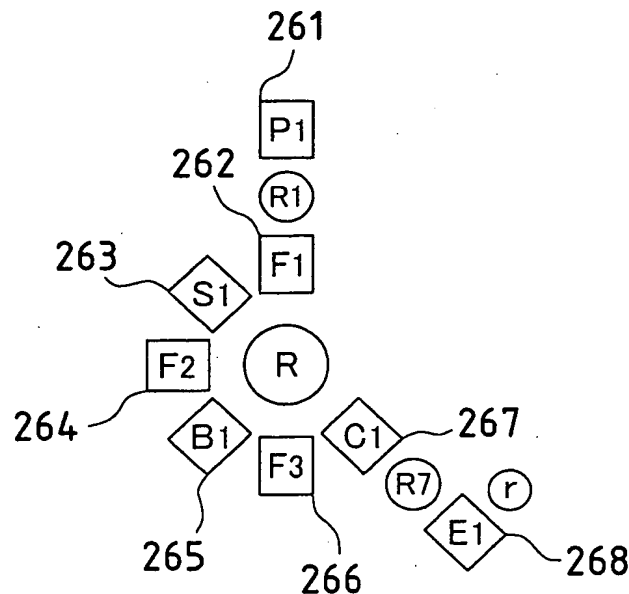
FIG.6

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (261)
R1~R7	: TRANSPORT ROBOTS
F1~F3	: FILM PROCESSING DEVICES (262, 264, 266)
S1	: SCRIBING DEVICE (263)
B1	: BREAKING DEVICE (265)
E1	: SEPARATING DEVICE (268)
C1	: PROTECTIVE MATERIAL CUTTING DEVICE (267)

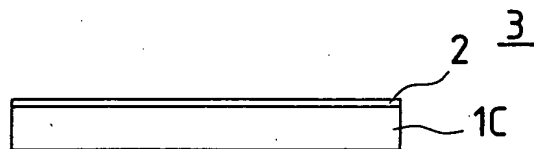


(b)

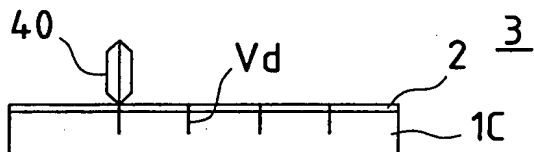


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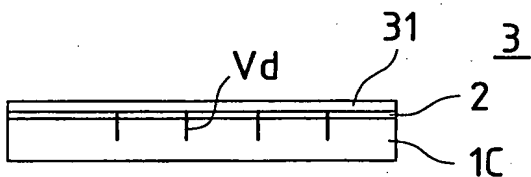
FIG. 7



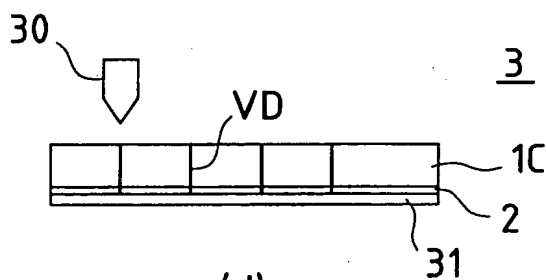
(a)



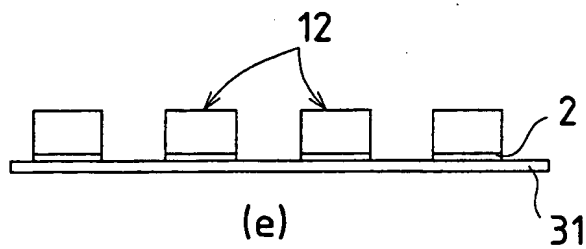
(b)



(c)



(d)



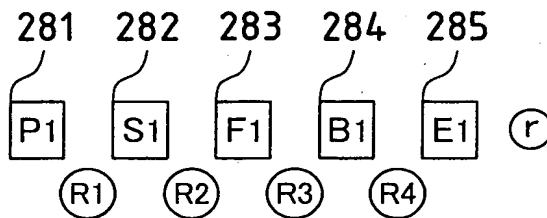
(e)

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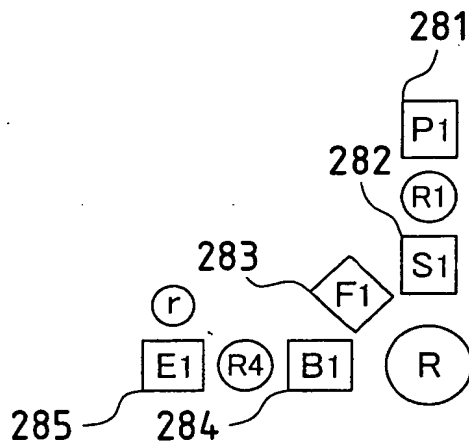
FIG.8

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (281)
R1~R4	: TRANSPORT ROBOTS
F1	: FILM PROCESSING DEVICE (283)
S1	: SCRIBING DEVICE (282)
B1	: BREAKING DEVICE (284)
E1	: SEPARATING DEVICE (285)

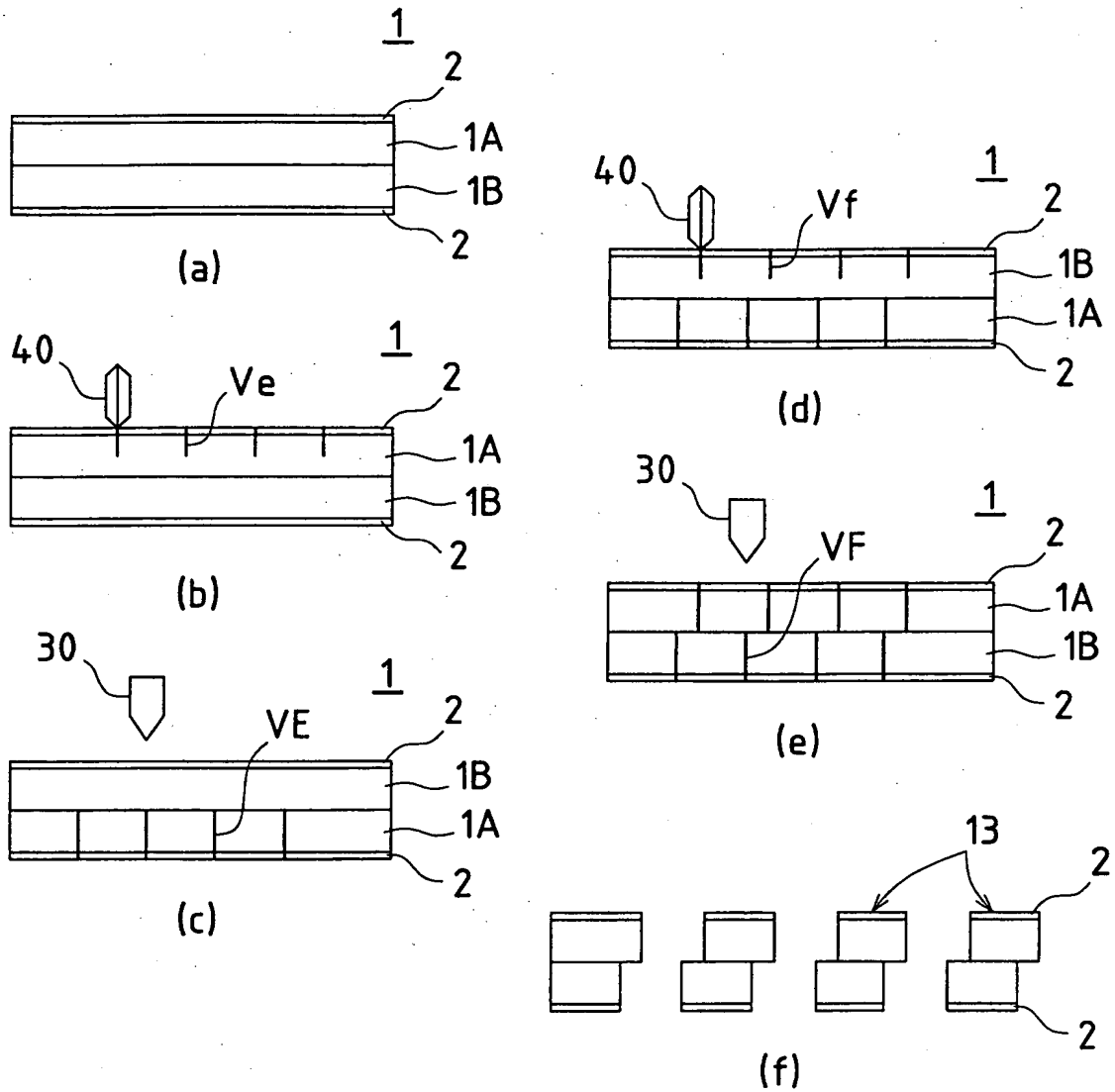


(b)



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FIG. 9

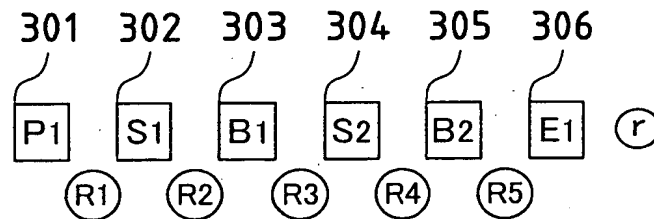


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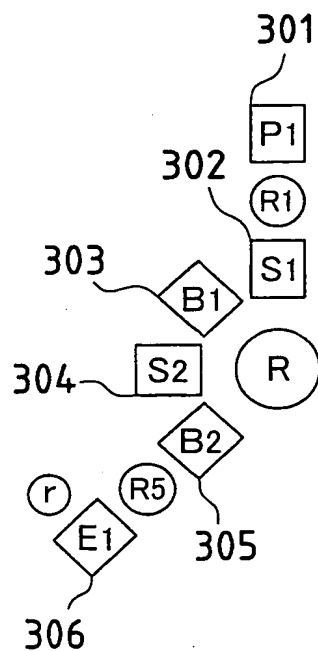
FIG.10

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (301)
R1~R5	: TRANSPORT ROBOTS
S1•S2	: SCRIBING DEVICES (302, 304)
B1•B2	: BREAKING DEVICES (303, 305)
E1	: SEPARATING DEVICE (306)

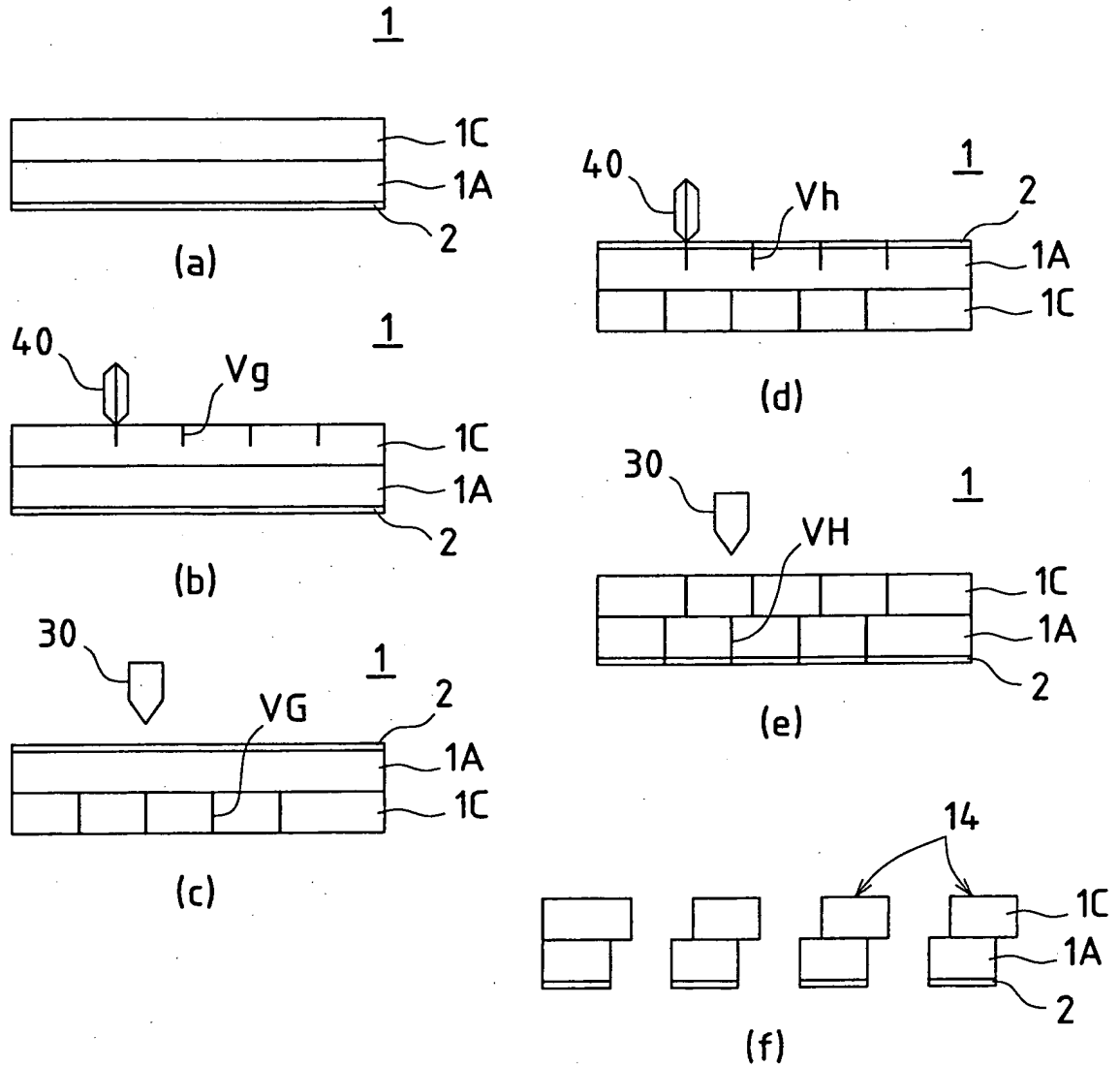


(b)



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FIG.11

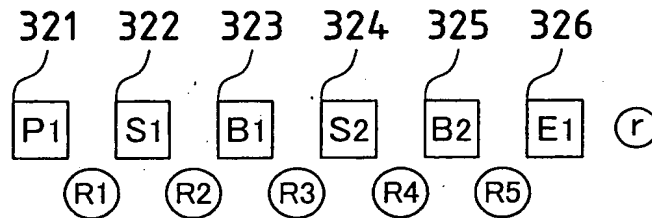


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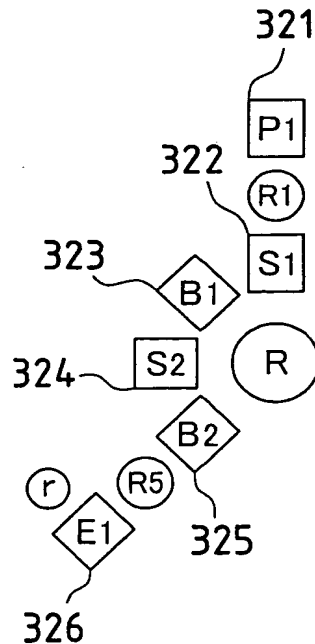
FIG.12

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (321)
R1~R5	: TRANSPORT ROBOTS
S1·S2	: SCRIBING DEVICES (322, 324)
B1·B2	: BREAKING DEVICES (323, 325)
E1	: SEPARATING DEVICE (326)

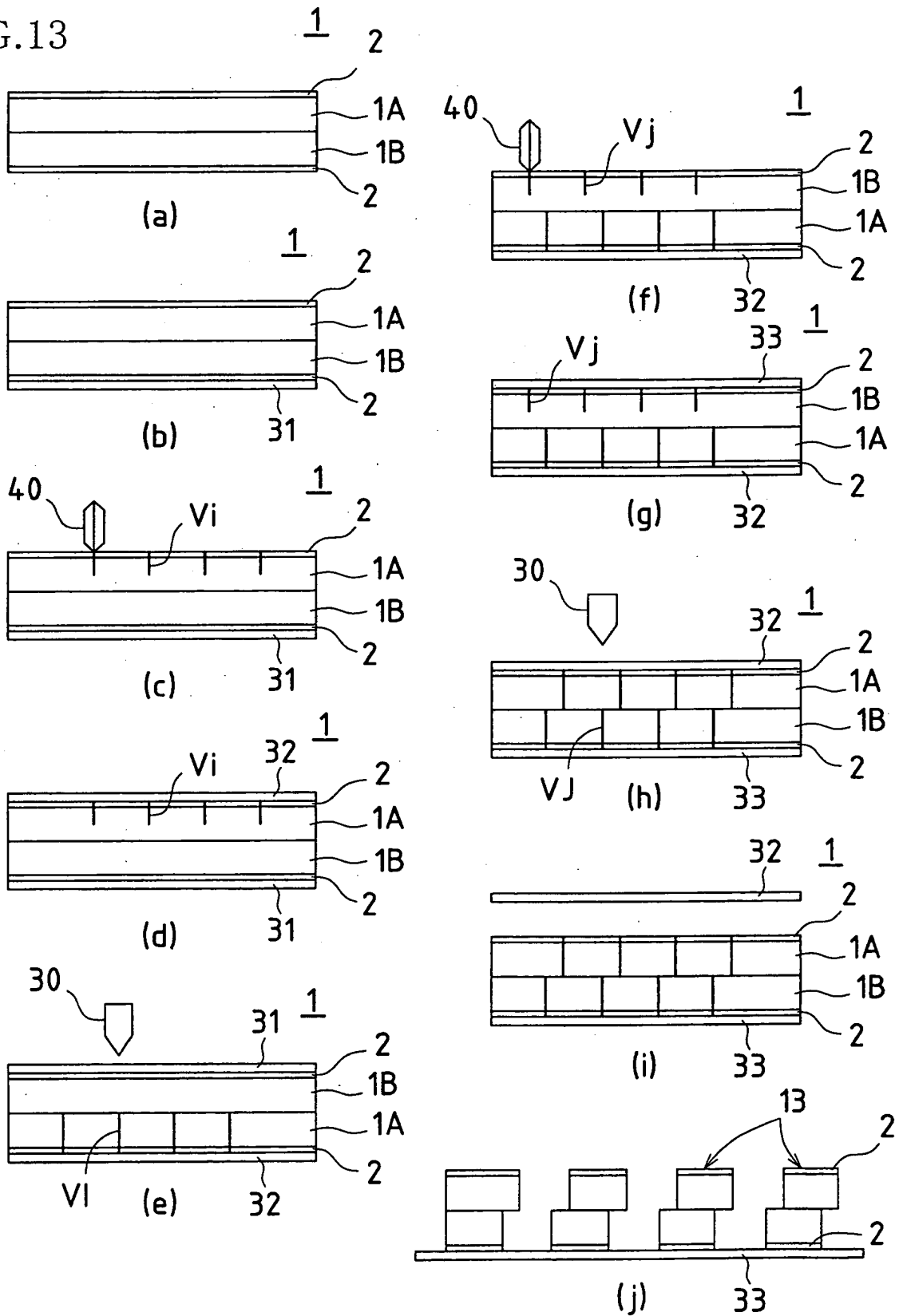


(b)



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FIG.13

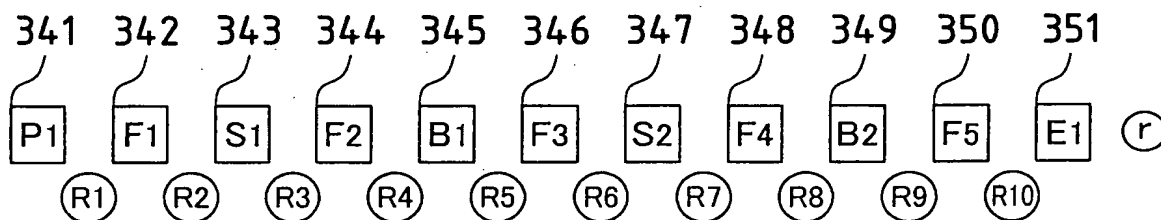


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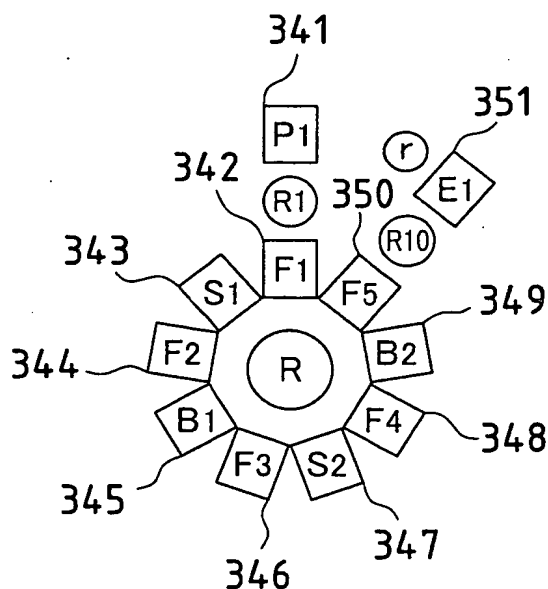
FIG.14

(a)

P1 : PROTECTIVE MATERIAL PROCESSING DEVICE (341)
R1~R10 : TRANSPORT ROBOTS
F1~F5 : FILM PROCESSING DEVICES (342, 344, 346, 348, 350)
S1~S2 : SCRIBING DEVICES (343, 347)
B1~B2 : BREAKING DEVICES (345, 349)
E1 : SEPARATING DEVICE (351)

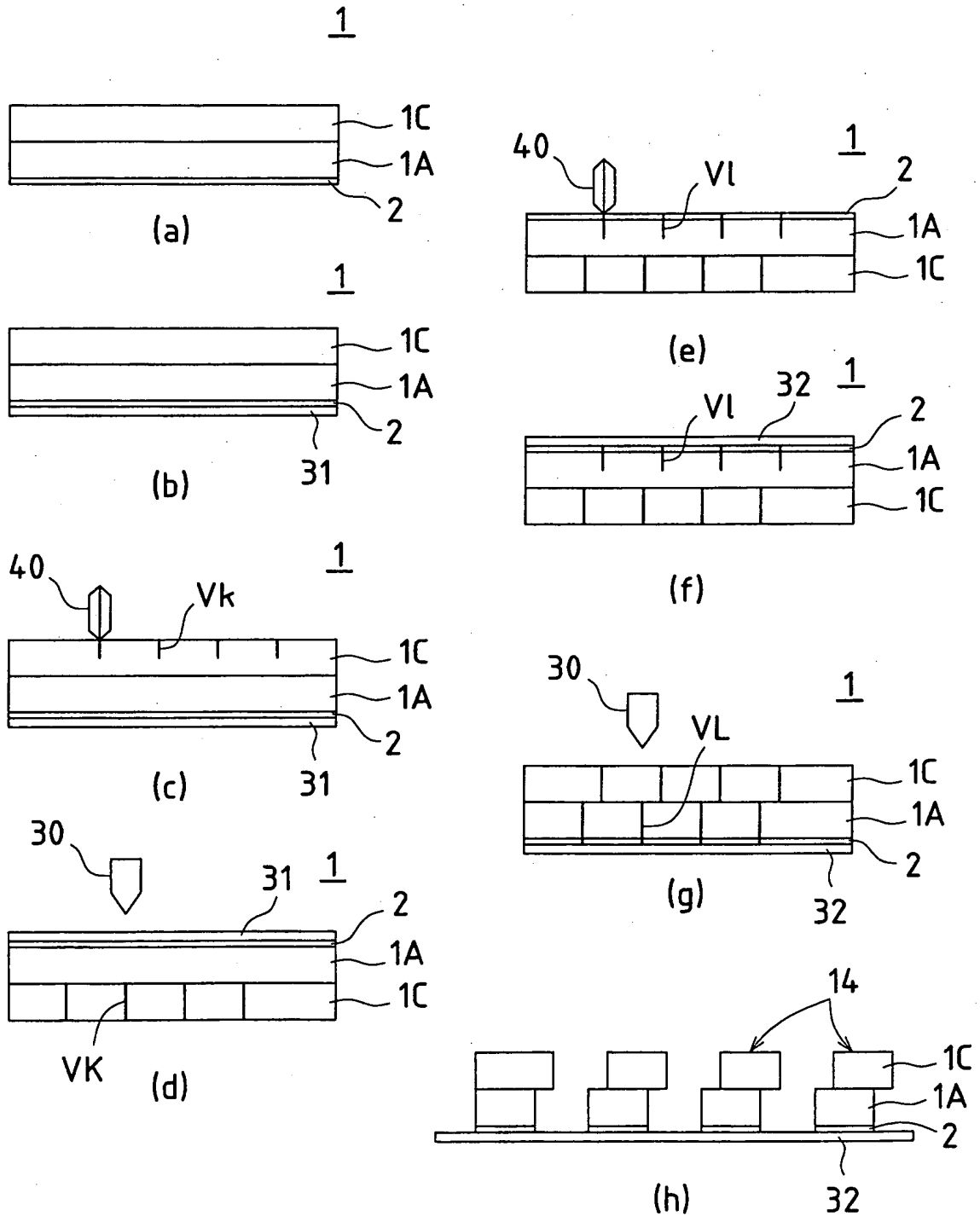


(b)



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FIG.15

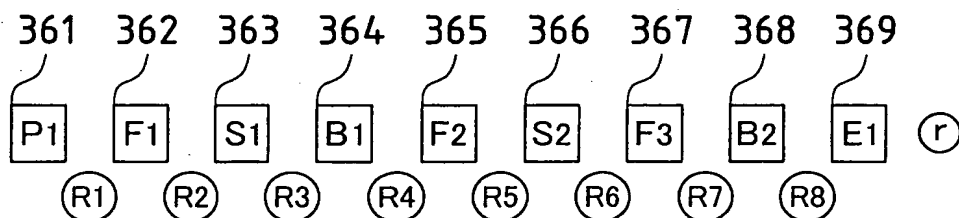


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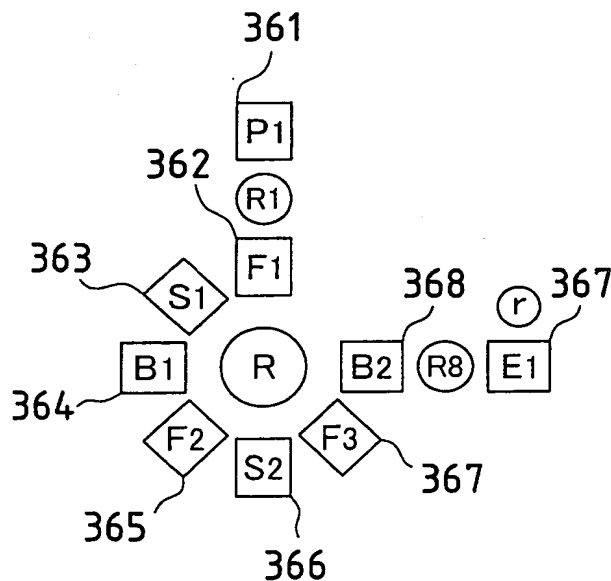
FIG.16

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (361)
R1~R8	: TRANSPORT ROBOTS
F1~F3	: FILM PROCESSING DEVICES (362, 365, 367)
S1~S2	: SCRIBING DEVICES (363, 366)
B1~B2	: BREAKING DEVICES (364, 368)
E1	: SEPARATING DEVICE (369)

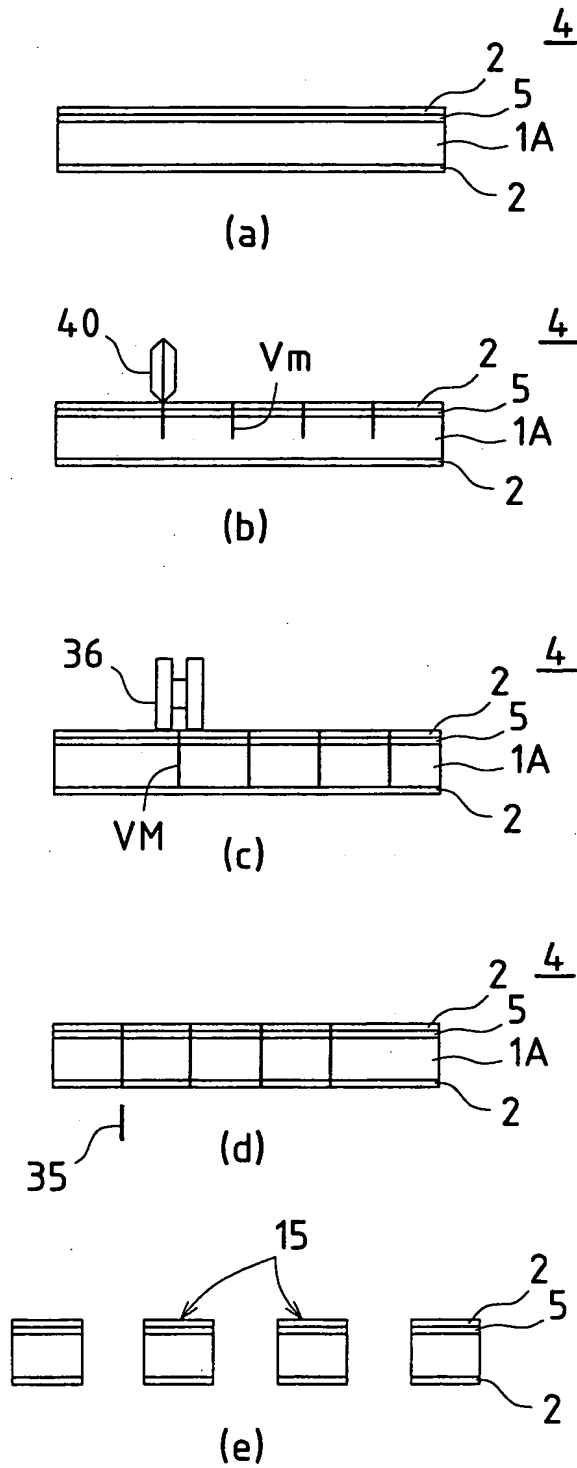


(b)



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FIG. 17

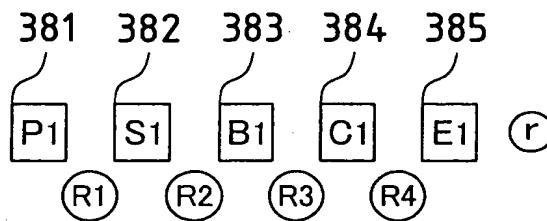


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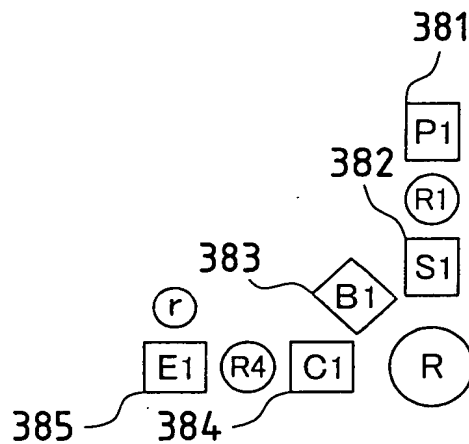
FIG.18

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (381)
R1~R4	: TRANSPORT ROBOTS
S1	: SCRIBING DEVICE (382)
B1	: BREAKING DEVICE (383)
E1	: SEPARATING DEVICE (385)
C1	: PROTECTIVE MATERIAL CUTTING DEVICE (384)

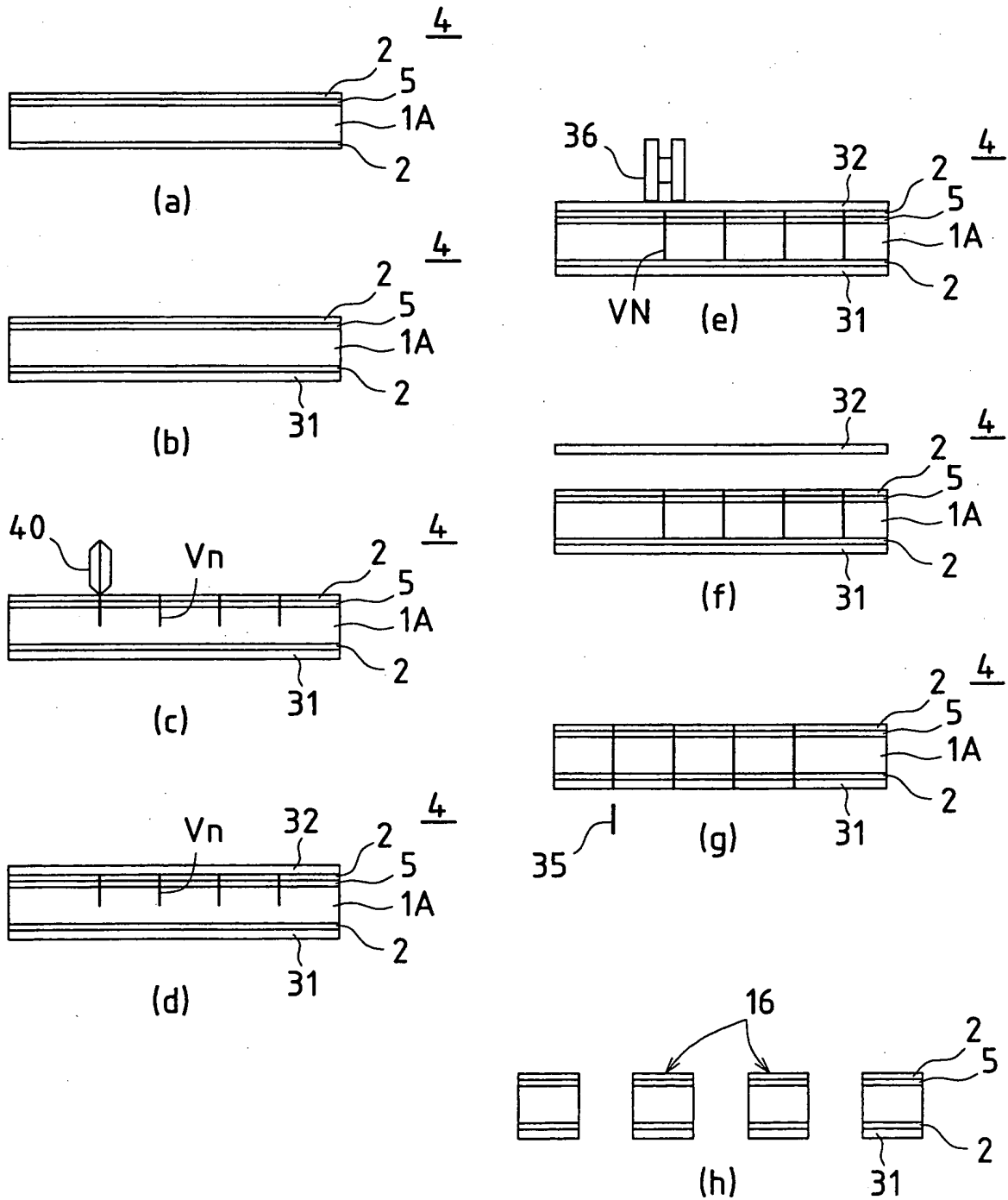


(b)



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FIG.19

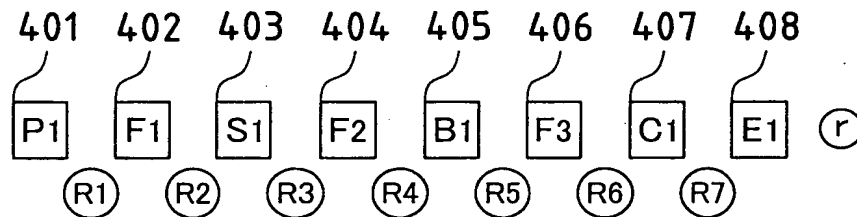


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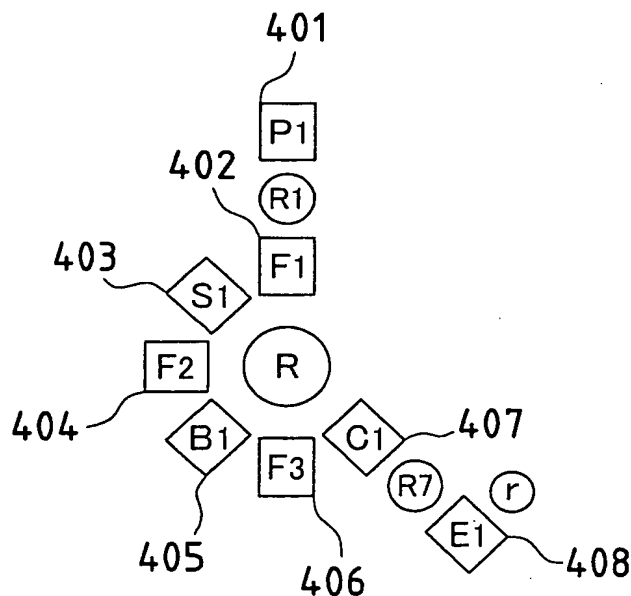
FIG.20

(a)

P1	: PROTECTIVE MATERIAL PROCESSING DEVICE (401)
R1~R7	: TRANSPORT ROBOTS
F1~F3	: FILM PROCESSING DEVICES (402, 404, 406)
S1	: SCRIBING DEVICE (403)
B1	: BREAKING DEVICE (405)
E1	: SEPARATING DEVICE (408)
C1	: PROTECTIVE MATERIAL CUTTING DEVICE (407)

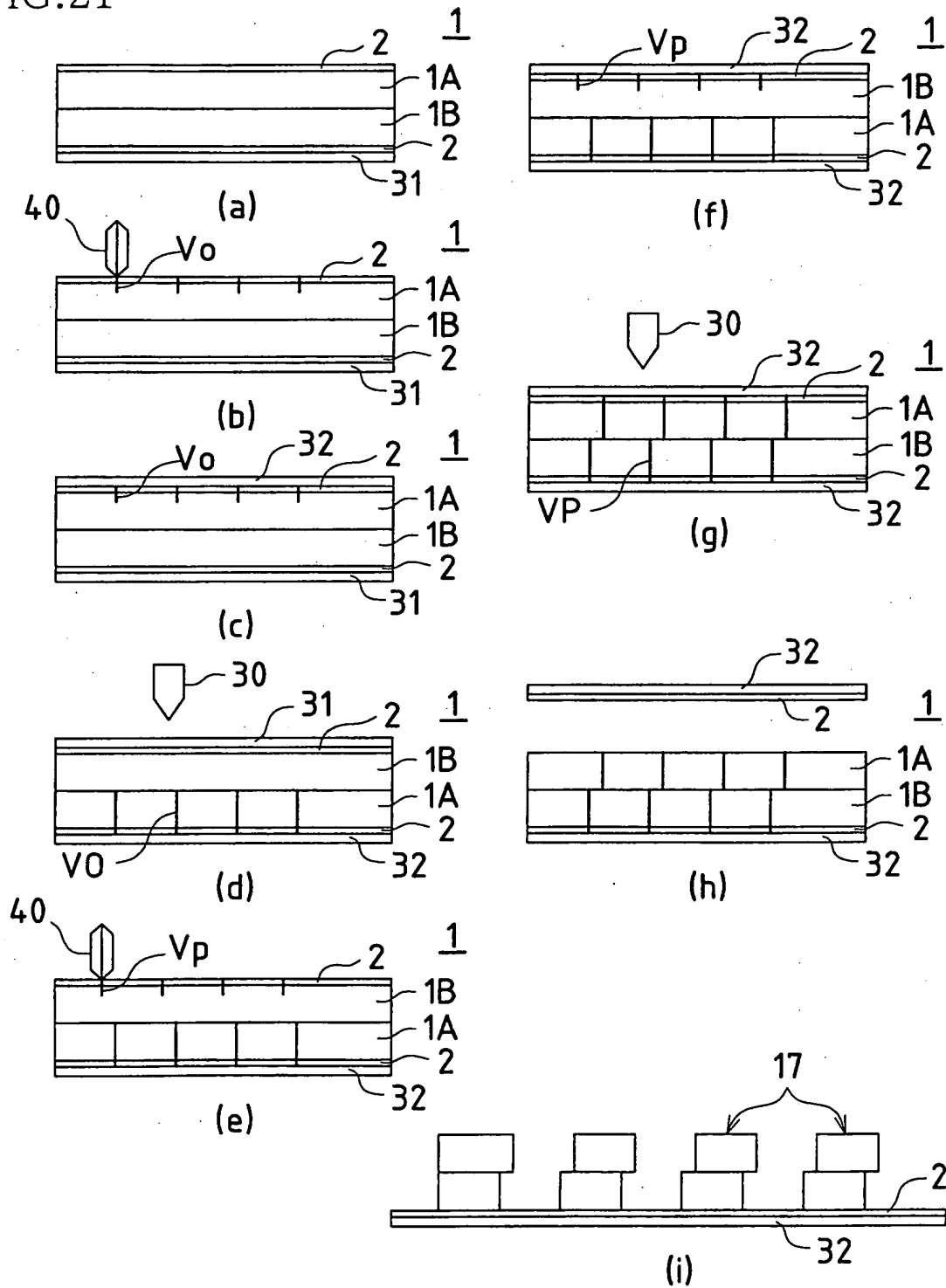


(b)



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FIG. 21

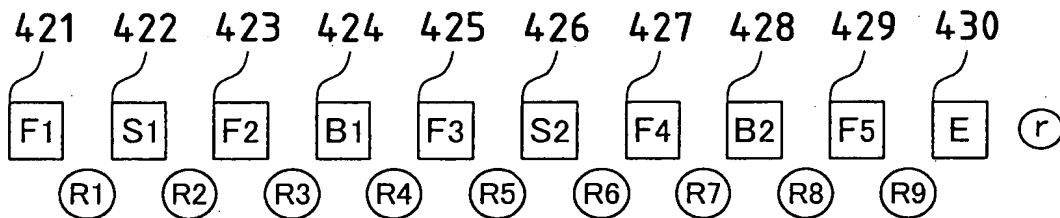


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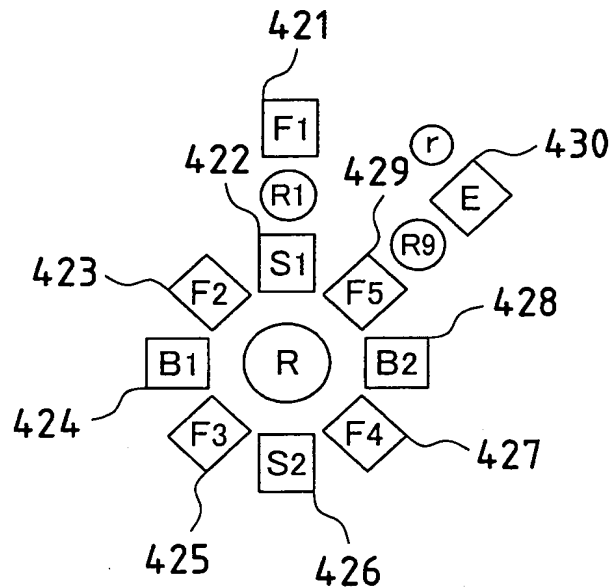
FIG.22

(a)

R1 ~ R9 : TRANSPORT ROBOTS
F1 ~ F5 : FILM PROCESSING DEVICES (421, 423, 425, 427, 429)
S1 • S2 : SCRIBING DEVICES (422, 426)
B1 • B2 : BREAKING DEVICES (424, 428)
E : SEPARATING DEVICE (430)

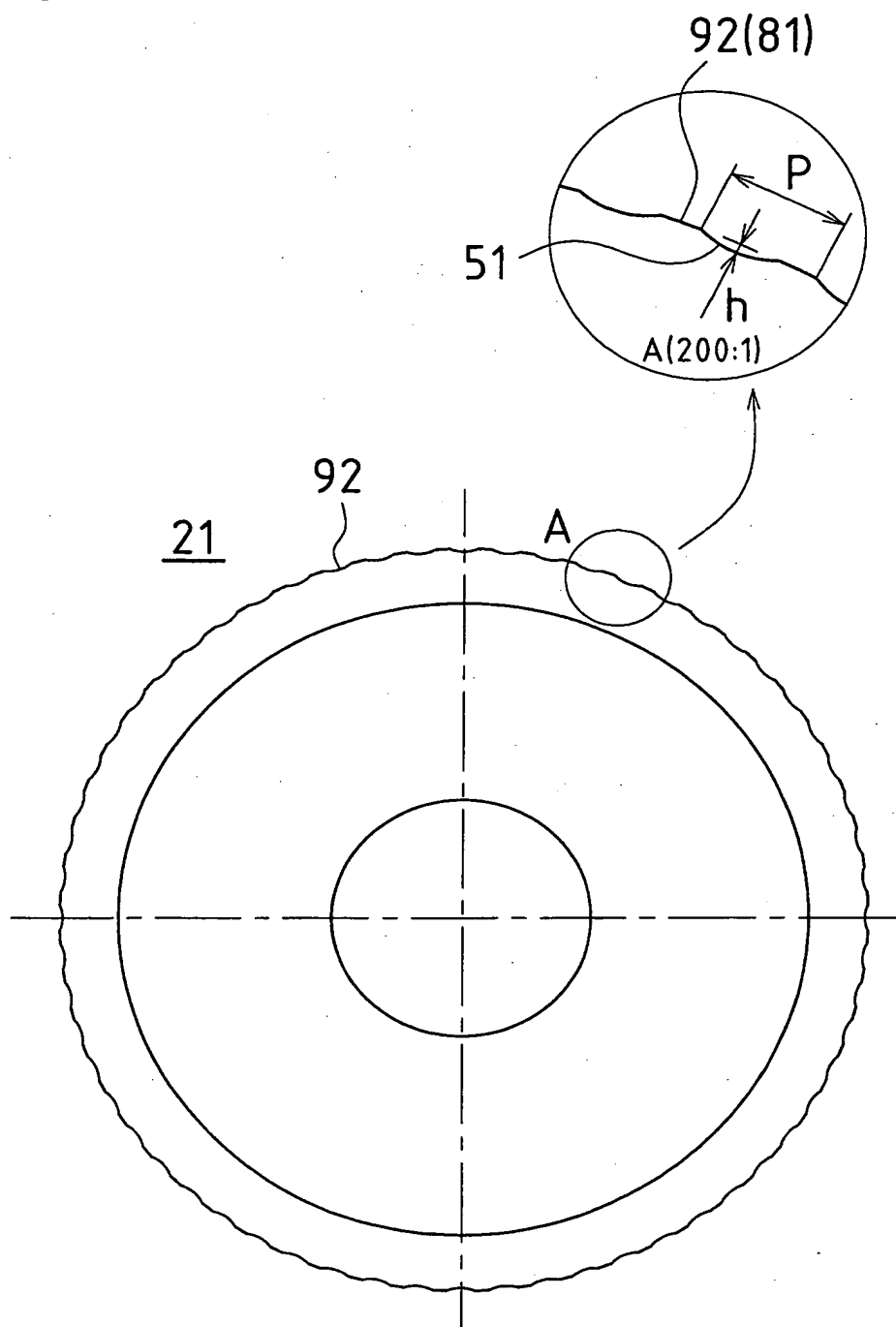


(b)



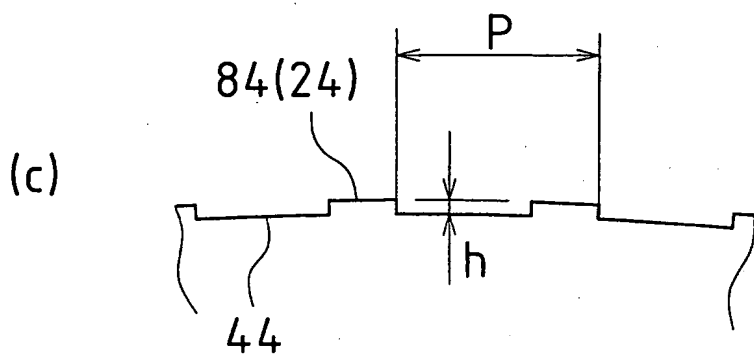
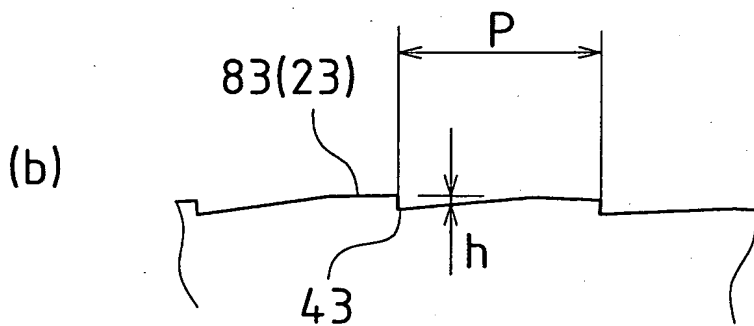
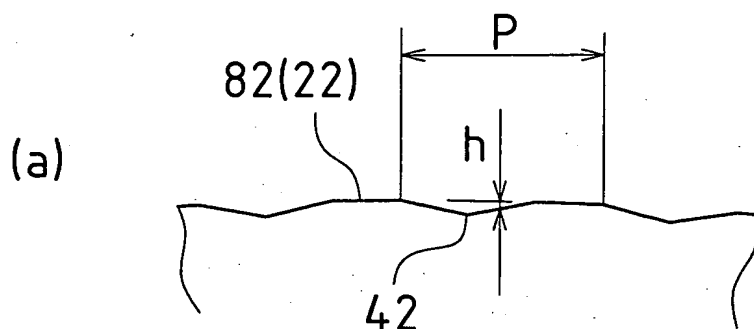
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FIG.23



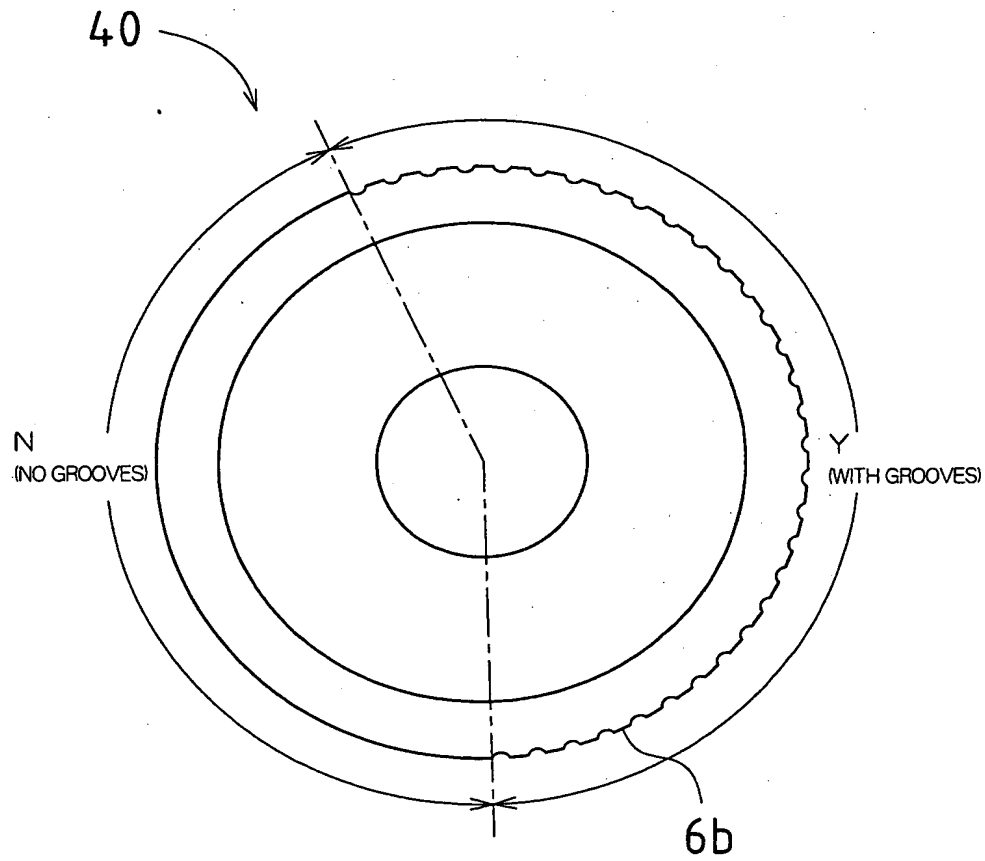
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FIG.24



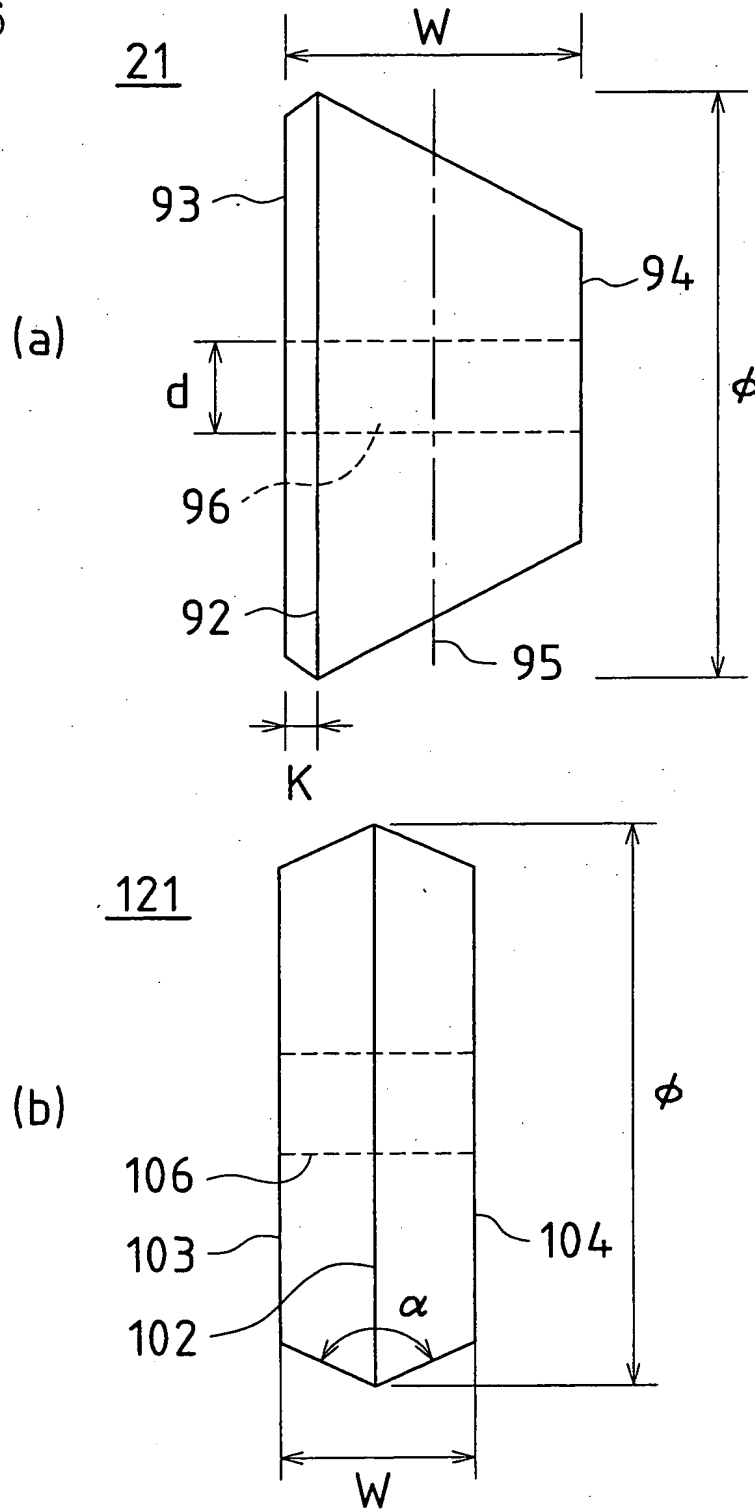
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FIG.25



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FIG.26



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FIG.27

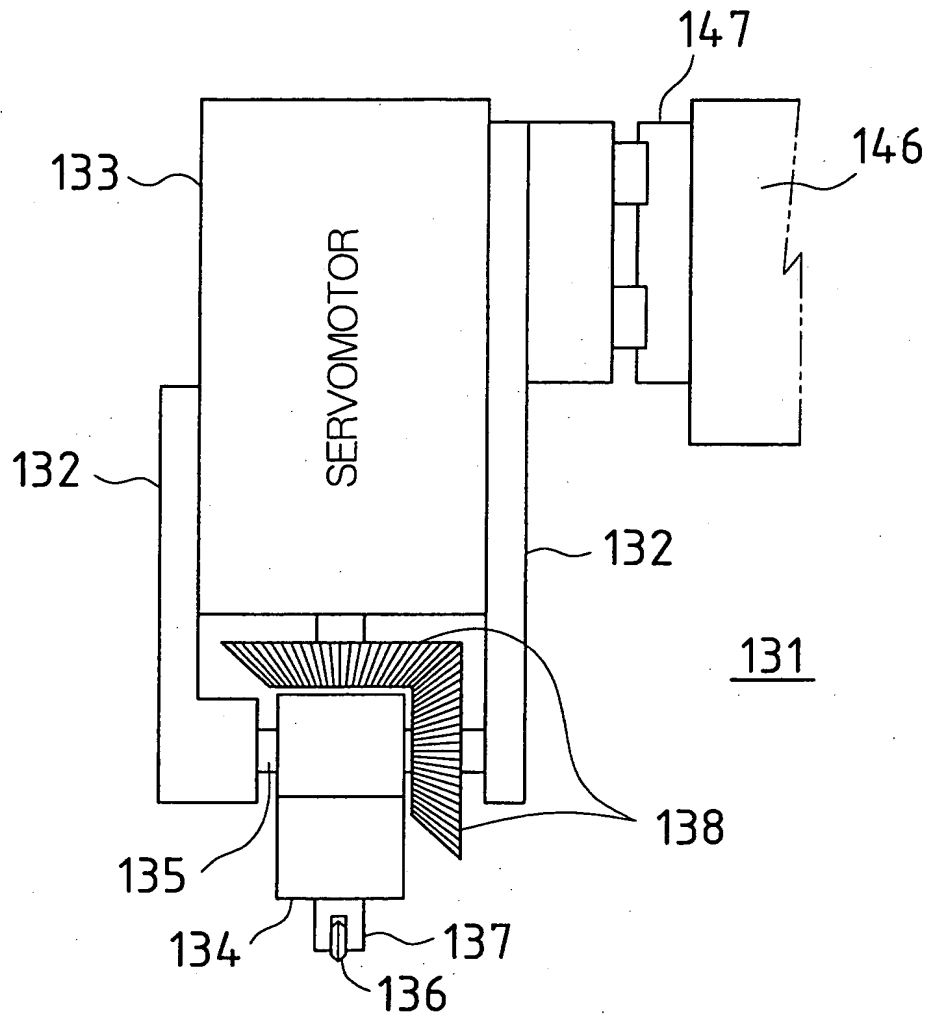
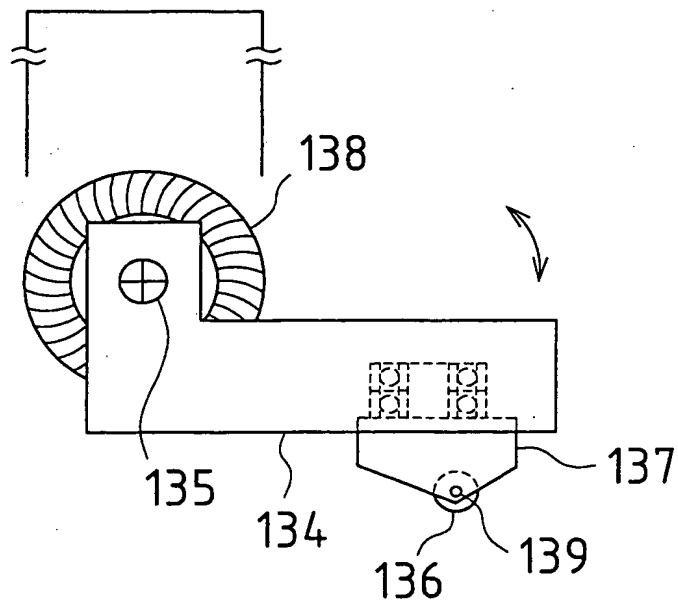
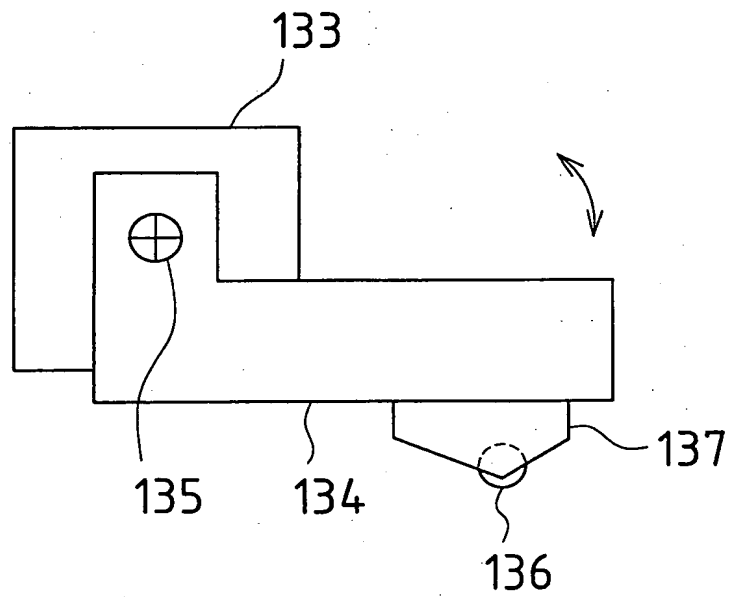


FIG.28



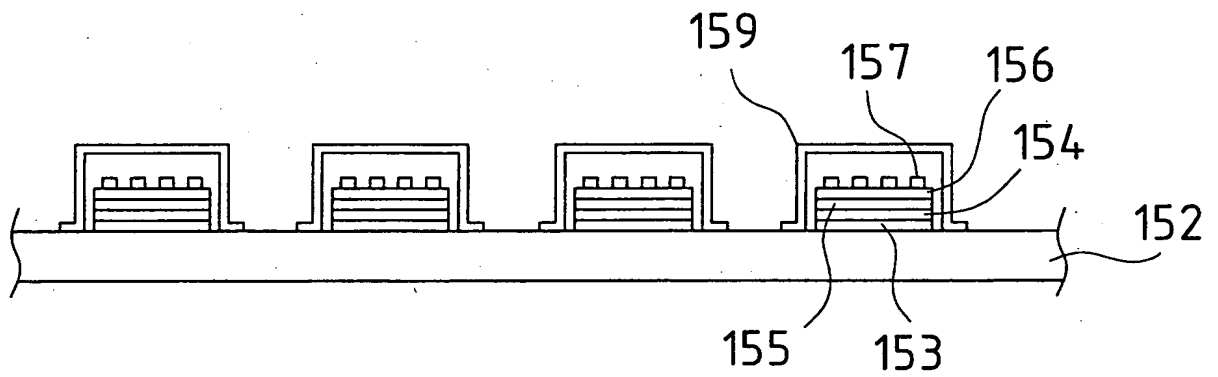
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FIG.29



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FIG.30



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FIG.31

